TRSDOS Commands and Utilities

Adds one disk file onto the end of another APPEND APPEND FTW/TXT NORTX/TXT

Changes protection of specified file. (I or V. ACC. ATTRIB UPD. PROTI ATTRIB DLD/DAT (1+ACC+JUL14-UPD+MOUSE)

PROT=READ)

Automatically executes the specified AUTO command TRSDOS command each time TRSDOS starts up. LAUTO by itself erases the automatic command.) AUTO CLOCK AUTO BASIC

BACKUP Duplicates a system or data diskette BACKUP BACKUP (# 11

BUILD Creates an automatic command input file BUILD JOBFILE

Loads Disk BASIC interpreter, BASIC ' allows BASIC recovery of the program that was in memory before the return to TRISDOS.

BASIC + BASIC

Clears user memory and set top memory address. CLEAR CLEAR (START - BODO + END - DADDA + MEM + 7000) CLEAR

CLOCK Turns real-time clock display on off. CLOCK (ON) CLOCK CLOCK (OFF)

CLS Clears the screen. CLS

Model I to Model III program data file conversion. CONVERT CONVERT

COPY oldfile newfile Copies a file. COPY FILE 1/8AS UPDFL/8AS

COPY FILE/A FILE/A:1 COPY FILEA/BASIS :1

CREATE filename(LRL = aaa, REC = bbb) Creates a preallocated file. CREATE JOSFILE (LRL=256. REC=50)

Sets or displays the current date. DATE newdate DATE #7/18/8# DATE

DEBUG Starts debug monitor DEBUG (turns monitor ON) Q (turns manitor OFF) DIR :d(INV. SYS. PRT) Lists the diskette directory. (INVisible or SYStem) on drive d on the Display or Printer (PRT). DIR +1 (1MU) DIR : d (PRT)

DO command-line Begin auto command input from disk DO BEGIN

DUAL (switch) Duplicates output to video and printer. DUAL (ON) DUAL DUAL (OFF)

DUMP file Dumps content of RAM into a machine-language program disk file. (START - sage END - bbbb, TRA - cocc.RELO = ddddd)

DUMP DATA/E(M:1 (START -8000 END-8050)

ERROR number Displays an error message. ERROR 47

FORMS (WIDTH = aaa,LINES = bbb) Set printer para-FORMS INIDIH-BE LENGTH-581

FORMAT Initializes a diskette into tracks and sectors. FORMAT 11 FORMAT

FREE Lists a diskette's allocation map to the Display or Printer (PRT) FREE 11 FREE 12 (PRT)

HELP command Explanation of TRSDOS command. HELF BACKUP

KILL file/EXT:d Deletes a file from directory; frees space allocated to that file KILL FL/886: 1 KILL / CMD:#

LIB Lists library commands. LIB

LIST file (PRT, SLOW, ASCII) Lists contents of a file to the Display or Printer LIST PROGI/THT (PRT) LIST JOBIFILE/OLD (ASCII)

LOAD file Loads a machine-language file into memory. LOAD SRAPHICS

Special printer griver for some printers. LPD

MASTER (DRIVE = a) Forces a drive to be the Muster Read Write drive. MASTER releases any drive defined as Master Drive MASTER (DRIVE+1) MASTER

MEMTEST Test memory (ROM and RAM) MEMTEST

PATCH file (ADD = aaaa, FIND = bb, CHG = ec) Change the contents of a disk file. PATCH JOBFILE/BLD (ADD:5288.FIND:CDICIS. CHG=CS2C271

Pauses for operator action or message.

PAUSE INSERT DISKETTE #21 Changes file and diskette PROT :d (PW. LOCK)

passwords. PROT :1 (PW: LUCK)

PAUSE message

Deletes files, (SYS, DATA, ALL. PURGE :d (file-type) INV).

PURGE 10 PURCE :1 (INC)

Changes location where RELO file (ADD = aaaa) program loads into memory RELD JOSFILE/SLD (ADD-6578)

RENAME file TO file Henames a tie. RENAME MRS/BAS TO MS/BAS

Routes I O ROUTE (SOURCE = aa, DESTIN = bb) devices. ROUTE (SOURCE + PR) DESTIN+DD)

SETCOM (OFF. WORD = a, BAUD = bbb, STOP = c. PARITY = d, mode) Sets up Rti-2320 communications or display status. SETCOM (MORD = 7 . BAUD = 3 ## . STOP = 1 . PARITY = \$ + WAIT! SETCOM

Executes tape transfer operator: TAPE (S = a, D = b)TAPE (S=D D=T)

Resets or gets the time. TIME hh:mm:ss TIME TIME 14:12:30

Write-protects a diskette. WP (DRIVE = a) WP (DRIVE=1)

Transfers system files. XFERSYS KFERBYS

TRSDOS Error Messages Disk BASIC Functions

0	No Error Found
1	CRC Error During Disk I/O
2	Disk Drive Not in System
3	Lost Data During Disk I/O
	CRC Error During Disk I/O
4 5	Disk Sector Not Found
6	Disk Drive Hardware Fault
7	"Undefined Error Code"
8	Disk Drive Not Ready
9	Illegal EO Attempt
10	Required Command Parameter Not
	Found
11	illegal Command Parameter
12	Time Out On Disk Drive
13	(O Attempt To Non System Disk
14	Write Fault On Disk I/O
15	Write Protected Disk
16	illegal Logical File Number
17	Directory Read Error
18	Directory Write Error
19	Invalid File Name
20	GAT Read Error
21	GAT Write Error
22	HIT Read Error
23	HIT Write Error
24	File Not Found
25	File Access Denied Due To
	Password Protection
26	Directory Space Full
27	Disk Space Full
28	Attempt To Read Past EOF
29	Attempt to Read Outside of File
	Limits
30	No More Extents Available
31	Program Not Found
32	Invalid Drive Number
34	Attempt To Use Non Program File As a Program
35	Memory Fault During Program Load
36	"Undefined Error Code"
37	File Access Denied Due To
	Password Protection
38	I/O Attempt To Unopen File
39	Invalid Command Parameter
40	File Already In Directory
	Assessed To Closen Eile Already Confi

Attempt To Open File Already Open

Converts to double-precision after GET CVD(str) A**EUDICREPAY#1

CVI(str) Converts to integer after OET. PRINT CUI(II*)

CVS(str) Converts to single-precision after GET. FK+CVS(T#)

EOF(b) End-of-tile detector for buffer b. IF EDF (3) THEN CLOSE 3.

Returns number which INSTR(pos, mainstr, substr) indicates the position of the main string where the substring begins. If substring not in main string, zero is returned. If pos is amitted, pos = 1. PRINT INSTRICE, "UA"; K-INSTRICE.GE. Y1=1NSTR(0:5*:0)

LOC(n) Gets current record number PRINT LUC(1)

Determines number of last (highest-numbered) record in specified file. Y+LDF(5)

Makes double-precision number ready for disk MKDS(x) write (random access). LSET AUGS-HKDs (3000.00001)

Makes integer number ready for disk write (random) MKIS(n) LSET AUGS-MK(8(3000) LSET YS-MK(8(YE)

Makes single-precision number ready for disk MKSS(x) write (random access). LSET AVGS (MKSs (3000.1) LSET MS (MK[S (N)

USRe(x) Calls any one of up to 10 machine-language subroutines, n=0-9, if n is omitted, zero is used. See DEFUSRn. X=USR#(T1) F=USR7(Y)

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Disk BASIC Statements

CLOSE Closes all open file-buffers or specified buffer(s).

CLOSE 1-2-8 CLOSE N

CMD "A" Returns to TRSDOS on error.

CMD "B" Enable Disable (BREAK) key.
CMD "B" - "DN" CMD "B" - "DFF"

CMD "C" Deletes program remarks (R) or spaces (S).
CMD "C" -R CMD "C" -S CMD "C"

CMD "D" Displays directory for specified drive

CMD "E" Displays previous THSDOS error.

CMD 'T', command Executes a command to TRSDOS, may overwrite BASIC.

CMD "I", "HELP"

CMD "J" Changes calendar date from source to destination, mm/dd/yy can be changed to ddd/yy — yy/ddd can be changed to mm/dd/yy

CMD"J","#8/12/81",0\$ CMD"J","-64/2#1";0\$

CMD 'L', routine Loads Z-80 routine or program file into RAM.

CMD "L" + JOBFILE

CMD "O", x, array (start) Alphabetizes (sorts) contents of an array, x is the number of items to be sorted; start is where the sorting process begins.

CMD "O", SØ, A(1)

CMD 'P', status Checks printer status status is a string variable.

EMD "F" + X\$

CMD 'R' Turns real-time clock display ON.

CMD 'S' Returns control to TRSDOS.

CMD "T" Turns real-time clock display OFF

CMD "X", target Cross-references program lines and line numbers target can be a reserved word, string, or string variable.

CMD "X" + GGTG CMD "X" + "PRINT"

CMD "Z" Simultaneous output to Printer and Display (dual routing).

CMD "Z" , "ON" CMD"Z" , "DFF"

DEFFN Defines a user-created function.

DEF FNA\$(X)=STRINGS\$(X,45)

DEFUSR# Defines entry point for machine-language subroutine called by USRn. If n is omitted, zero is used DEFUSR#&H5500 DEFUSR4=&H7D7E

FIELD Organizes a random file buffer into fields. FIELD 3 116 AS NM# .Z5 AS AD#

GET b, record number Gets specified or next record from a disk file (random access): stores it in buffer b

INPUT #6 Inputs data from buffer b (sequential access).
INPUT #1.A.B

KILL Deletes a disk file.
KILL "PRG/BAS" KILL "FILE:::"

LINE INPUT Line inputs from keyboard: (ENTER) ends input.

LINE INPUT AS LINE INPUT "ENTER YOUR NAME?" INS

LINE INPUT # Line inputs from disk into specified buffer; carriage return, end-of-file. 255th character ends input.

LOAD Loads program file from disk. R option causes program to run, leaving open files open.

LSET Left-justifies data into a random access field.
LSET CITY \$="DULUTH"

MERGE Merges disk program with resident program. Disk program must be in ASCII format. MERGE "PR/8AS"

MID\$ (old, pos, len) = rep! Replaces one portion of a string with another, it length option is omitted, same number of characters in the old string will be changed as the number of characters in the replacement string.

MID\$ (A\$,3,4] = "USAFX" MID\$ (A\$,5) = "01"

NAME newline, startline, increment

Gram line numbers, newline is the new number of the first line which is to be renumbered. If omitted, 10 is used, startline is the line number where renumbering is to begin. If omitted, entire program will be renumbered, increment is the increment between successive renumbered lines. If omitted, 10 is used.

NAME 188.18.18.88. NAME NAME 155

OPEN mode, b, file, n
Opens file; assigns mode (I = input,
O = output, R = random, E = Output to end-of-file); assigns buffer
number b, file specifies filename, n specific number of files.

OPEN "R" - 1" CLIENTS/TXT"

PRINT #6 Writes data to file-buffer b (sequential access).
PRINT #1 -A

PUT b, record number Moves data from file-buffer b into the specified record (random access). If record number is omitted, current record number is used.

PUT 1 - 25 PUT 1 PUT C - N

RSET Right-justifies data into a random access field.

RUN program Loads and executes disk program. R option leaves open files open.

RUN "PROG/BAS" RUN "PRG:1" - R

SAVE filename Saves BASIC program on disk. A option causes file to be stored in ASCII format.

SAVE "FL1/BAS:3" SAVE "PRT/TXT" . A

Disk BASIC Debug Monitor Commands

D Displays memory contents. D ADDRESST - aaaa where aaaa is a hexadecimal number.

X Half-screen display.
 S Full-screen display.

M Modify RAM. M ADDRESS? = aaaa where aaaa is a hexadecimal number.

Change Register contents.
Raa,bbbb (SPACEBAR) where
as is one of the register pairs AF, BC, DE, HC, PC and bbbb
is a hexadecimal value.

Single-step.

C Single-step executing call.

Up-dates display.

Increment the first location on a half-screen display by 16; on full-screen, by 256.

 Decrement the first location on a half-screen display by 16; on full-screen, by 256.

Jump the transfer of control from one location to another. J ADDRESS? – aaaa, bbbb where aaaa specifies the hexadecimal location where execution begins and bbbb specifies the hexadecimal location of the breakpoint.

Q Quits or exits from debug

F Disk file utility which allows you to load disk file into memory and change it.

Disk BASIC Error Codes

51	Field Overflow
52	internal Error
53	Bad File Number
54	File Not Found
55	Bad File Model
58	Disk I/O Error
62	Disk Full
63	Input Past End
64	Bad Record Number
65	Bad File Name
67	Direct Statement in File
68	Too Many Files
69	Disk Write-Protect
70	File Access

Disk BASIC Abbreviations & Special Characters

Indicates following number is a
hexadecimal constant.
Indicates following number is an octal constant.
Lists previous line.
Lists next line
Lists current line.
Edit current line.
Lists first line:
Lists last line.
List line xx.
Edit line xx.
Delete line xx:
Automatic line numbering beginning at line xxx, incrementing by xxx

TRS-80® MODEL III MICROCOMPUTER SYSTEM



Start-Up

The entire system (Computer and peripherals) should be OFF and the disk drives empty.

- Turn all peripherals ON.
- 2. Turn the Computer ON.
- Insert a System diskette into Drive 0. Close the drive door.
- Press the RESET button. Once the system is initialized, TRSDOS will load and take control.
- 5. To start Disk BASIC, type BASIC (ENTER)
- When BASIC asks HOW MANY FILES? type in the number of concurrent files you need or press (ENTER) (three concurrent files).
- Then BASIC will ask MEMORY SIZE? Answer by typing in a specific number or press (ENTER) to enter Disk BASIC.
- The Disk BASIC start-up message will appear followed by the READY prompt. The Computer is now ready for use.

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TRS-80 MODEL III DISK SYSTEM

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